

Title (en)

PROCESS FOR PREPARING AMPHIPHILIC PEPTIDE DERIVATIVES

Title (de)

VERFAHREN ZUR HERSTELLUNG AMPHIPHILER PEPTIDDERIVATE

Title (fr)

PROCÉDÉ DE PRÉPARATION DE DÉRIVÉS DE PEPTIDES AMPHIPHILES

Publication

**EP 3008079 A4 20170118 (EN)**

Application

**EP 14810233 A 20140611**

Priority

- US 201361833909 P 20130611
- IB 2014062135 W 20140611

Abstract (en)

[origin: WO2014199315A1] The present invention relates to novel derivatives of hydrophilic bioactive peptides which have been modified by introducing a lipophilic substituent through esterification of the free carboxylic group(s) of the peptide with an aliphatic alcohol. The present invention also refers to a simple, fast and effective process for the preparation of amphiphilic derivatives of peptides. It also refers to pharmaceutical compositions for the controlled release and delivery of these pharmacologically active peptides.

IPC 8 full level

**C07K 1/113** (2006.01); **A61K 31/215** (2006.01); **A61K 38/00** (2006.01); **A61K 38/08** (2006.01); **A61P 3/00** (2006.01); **A61P 9/00** (2006.01); **A61P 15/10** (2006.01); **A61P 17/14** (2006.01); **A61P 21/00** (2006.01); **A61P 27/06** (2006.01); **C07K 7/14** (2006.01)

CPC (source: EP US)

**A61P 3/00** (2017.12 - EP); **A61P 9/00** (2017.12 - EP); **A61P 15/10** (2017.12 - EP); **A61P 17/14** (2017.12 - EP); **A61P 21/00** (2017.12 - EP); **A61P 27/06** (2017.12 - EP); **C07K 1/006** (2013.01 - EP US); **C07K 1/1077** (2013.01 - EP US); **C07K 14/575** (2013.01 - US); **A61K 38/00** (2013.01 - EP US)

Citation (search report)

- [X] FALICK A M ET AL: "Derivatization of hydrophilic peptides for liquid secondary ion mass spectrometry at the picomole level", ANALYTICAL BIOCHEMISTRY, ELSEVIER, AMSTERDAM, NL, vol. 182, no. 1, 1 October 1989 (1989-10-01), pages 165 - 169, XP024821441, ISSN: 0003-2697, [retrieved on 19891001], DOI: 10.1016/0003-2697(89)90736-7
- [A] L. ZHANG ET AL: "Converting Peptides into Drug Leads by Lipidation", CURRENT MEDICINAL CHEMISTRY : THE NEW INTERNATIONAL JOURNAL FOR TIMELY IN-DEPTH REVIEWS IN MEDICINAL CHEMISTRY, vol. 19, no. 11, 1 March 2012 (2012-03-01), NL, pages 1602 - 1618, XP055300411, ISSN: 0929-8673, DOI: 10.2174/092986712799945003
- [A] E R SMITH ET AL: "Synthesis of Octanoyl[8-leucyl]angiotensin 11, a Lipophilic Angiotensin Antagonist", CHEM, 1 January 1972 (1972-01-01), pages 3890, XP055327228, Retrieved from the Internet <URL:<http://pubs.acs.org/doi/pdf/10.1021/jm00217a006>>
- [A] S C MOTTA ET AL: "Tachyphylactic properties of angiotensin II analogs with bulky and hydrophobic substituents at the N-terminus Introduction", J. PEPTIDE RES. COPYRIGHT BLACKWELL MUNKSGAARD, vol. 62, 1 January 2003 (2003-01-01), pages 227 - 232, XP055327447, Retrieved from the Internet <URL:[http://onlinelibrary.wiley.com/store/10.1034/j.1399-3011.2003.00091.x/asset/j.1399-3011.2003.00091.x.pdf?v=1&t=iwgfx19c&s=c5d1ce4863fe56afee589bfca7a9e27c5c4f0bf8>](http://onlinelibrary.wiley.com/store/10.1034/j.1399-3011.2003.00091.x/asset/j.1399-3011.2003.00091.x.pdf?v=1&t=iwgfx19c&s=c5d1ce4863fe56afee589bfca7a9e27c5c4f0bf8)
- See references of WO 2014199315A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2014199315 A1 20141218**; EP 3008079 A1 20160420; EP 3008079 A4 20170118; US 2016168224 A1 20160616

DOCDB simple family (application)

**IB 2014062135 W 20140611**; EP 14810233 A 20140611; US 201414904430 A 20140611